In The Matter Of:

Public Service Commission of South Carolina Requested by SC Office of Regulatory Staff

Ex Parte Briefing
April 16, 2014
Solar Potential in SC

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Solar Potential in SC

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3	Nikiya M. "Nikki" Hall, Vice Chairman John E. "Butch" Howard Elizabeth B. "Lib" Fleming	
4	Swain E. Whitfield Comer H. "Randy" Randall	
5	Brent L. McGee	
6	ADVISOR TO COMMISSION: Joseph Melchers, Esq.	
7	APPEARANCES:	
8	DUKES SCOTT [Executive Director/Office	
9	of Regulatory Staff] and GRANT REEVES [President/ South Carolina Solar Business Alliance, LLC],	
10	Presenters, representing the South Carolina Office of Regulatory Staff	
11		
12	JAMES J. CORBETT, Esq., Neurtral Designee/Certificator	
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1	PROCEEDINGS
2	CHAIRMAN HAMILTON: We'll call the ex
3	parte to order and we'll ask Attorney Melchers if
4	he would please read the docket.
5	MR. JOSEPH MELCHERS: Thank you,
6	Mr. Chairman.
7	Commissioners, we are here pursuant to
8	a notice of request for an allowable ex parte
9	briefing. The requester was the South Carolina
10	Office of Regulatory Staff and it was requested to
11	be today here in the commission hearing room at
12	2:00 p.m. And we are going to be addressed by
13	Grant Reeves, president of the South Carolina Solar
14	Business Alliance, LLC, and he will be addressing
15	solar potential in South Carolina.
16	Since the request was for an ex parte
17	briefing by the Office of Regulatory Staff, our
18	neutral today is Attorney Jim Corbett.
19	CHAIRMAN HAMILTON: Thank you very
20	much, Mr. Corbett. Mr. Scott.
21	MR. DUKES SCOTT [ORS]: Thank you, Mr.
22	Chairman, and we appreciate the opportunity to be
23	here. We're very happy today to be presenting an
24	ex parte on solar and solar potential in South
25	Carolina. We have probably the premier person to

do that with Grant Reeves.

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I first met Mr. Reeves last summer; we were at a solar conference together, and that was really kind of the beginning of where we realized we could -- we could work together and move forward. And since that time, there's been a lot of work done by -- with the utilities, the solar industry, and conservationists here, and we've got representatives from all of them today.

And there's a legislation that's now pending in the general assembly; Mr. Reeves was instrumental in bringing that group together and very helpful in it. He is with the South Carolina Solar Business Alliance and he's the spokesman, sort of, for them at this point in time. So at this time I'll turn the program over to Mr. Reeves.

CHAIRMAN HAMILTON: Thank you,

Mr. Scott. Mr. Reeves, we're happy to have you with us, sir. The floor is yours.

MR. GRANT REEVES [ORS]: Well, thank you, Mr. Chairman and members of the Commission, and it's a pleasure and an honor to be able to present to you information that I hope will be useful in understanding where the solar industry has evolved to on a national scale. I think it's

more important to understand, how does solar work from an economic point of view?

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My background as a manufacturing business executive, I got involved in the solar space about 18 months ago and I've learned a great deal in that amount of time. I'm -- I'm a little humbled to be called an expert. I read a lot. I do believe I'm a guick study.

And what I share with you today is at a very -- a very basic level because the intricacies of this industry vary all over. I'll repeat myself throughout, but solar is all about the numbers, and every location, every state, every job, is a little different. There are no generalities. What works one place, doesn't work elsewhere. I'll leave you with that as I proceed into my presentation today.

[Reference: PowerPoint Slide 2]

And what I really hope to accomplish in this presentation, a little bit about where solar as an industry has come, but really the building blocks of what makes it work. And so that begins with the sunshine. How do you capture it? What is that worth? What are the economic factors, the background? And so we'll talk about that.

We'll talk about how incentives in

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policy help to grow this industry and then I would like to talk about what some of the national issues are, because those are the issues that we'll be faced with as we evolve into this new territory.

And then finally, there is a piece of proposed legislation, and I hope to share with you a little bit of background at a very brief level of what that includes.

I would encourage you to stop me at any time if you have any questions for clarification and I think it will work quite well that way.

[Reference: PowerPoint Slide 3]

So I'll just start off very quickly.

These are some highlights of what's happening in our national solar industry today. And essentially what you have is an industry that is growing exponentially. A chart in a minute will show that graphically, but it grew over 41 percent over last year and projecting about another 26 percent next year. So it continues to grow.

There's about 13 gigawatts of installed capacity in this country. That's not a very large number compared to our overall generation, but certainly is a large number relative to, for example, our state or even in the southeast. That

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industry today is employing about 143,000 employees. And something that I found interesting, coal minors in this country today are about 80,000. So the solar industry has already surpassed that industry. What we have is about \$14 billion of installed capacity in our country and that's up from just under a billion dollars back in 2006.

[Reference: PowerPoint Slide 4]

This chart, I think, probably illustrates more than any, why has the industry grown so quickly? The price of the technology has simply dropped just as other electronic components have dropped. We've seen it with telephones, we've seen it with TVs, we've seen it with computers, and the solar industry utilities a lot of the same technology. It's said that every time production doubles, the price drops another 20 percent.

And so in this chart, the green line is the cost per watt. That's a useful and commonly used denominator of, what does a solar system cost? And so it has dropped from over \$10 a watt to down below \$4 a watt today. And for large scale, we'll see later, those numbers have even dropped below \$2 a watt. The bar shows, essentially, the capacity in megawatts, and so what you have over there is

about 45,000 megawatts of capacity.

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[Reference: PowerPoint Slide 5]

The next illustration is simply, how many companies are in the industry today? And there's over 6,100 companies all 50 states. I could've pulled the map up of South Carolina and we could've looked at some of the companies in South Carolina, but I'm afraid to say that there's probably less than a dozen companies in this state that really are seriously in the solar business full-time and making a living from it. So there is a large upside for this state to employ more people in this industry, and part of what I'm here for is to support that economic development in our state.

[Reference: PowerPoint Slide 6].

So with all of that growth, where is it -- where is it located? It's certainly not here, but this chart tells you it's all in California. I think California is more than all the other states combined. They have led with a number of policies, their electricity rates make it conducive, but more than anything, they have been the leaders.

And South Carolina is not on this map, but you do notice that Georgia and North Carolina

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are, and both of our state -- both of our neighboring states have, I would say, fairly aggressive programs to expand the solar space. South Carolina does not see that level in our near-term future, but we do need experience with the technology, which is part of why I'm so passionate about advocating and talking about this industry.

[Reference: PowerPoint Slide 7]

So what is in North -- in South

Carolina? Well, I'm proud to say I built the first

solar farm with my boss's money, not my money. But

it was a \$6 million investment. It's in -- just

outside of Walterboro. It's a 3 megawatt solar

farm. The photograph is that solar farm and that

was installed in nine weeks back in the fall.

That 3 megawatts of capacity, the 2.6 megawatts at Boeing that you're aware of, and then a handful of other installations that are about 100 kw. That is the limit for net metering under our laws today. And then about 300 residential systems are on a net metering program today. Add it all up, we have about 7 megawatts of capacity in our state. And according to the government, there's about 26,000 megawatts. So as you can see,

1 it's a small percentage of our total generation
2 today.

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country.

[Reference: PowerPoint Slide 8]

So I want to just begin with solar radiance. What does that mean? That really just measures the amount of direct sunlight that hits the ground that can be captured with the photovoltaic technology. This map is useful to show how we compare to other regions of the

And so we're in a -- in a sunny state, we know that. The southwest is a little bit better and the northeast is a little bit less.

And those are really the centers of solar development today, the southwest and the mid-Atlantic states and going into the New England states.

But, essentially, a report that was prepared by the Energy Advisory Counsel for PURC said there was about 17,000 megawatts of potential in our state, and that was based on between a 5 and 10 percent penetration. In other words, of all of our generation, 5 to 10 percent.

That number is far greater than the aspirations of the solar community today. Our

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aspiration is simply to begin a process and show the viability and then we can determine what the correct percentages should be. But to, you know, use this solar radiance, you can see 6 kilowatts per square meter per day is what you would be able to get from the technology. South Carolina is at 5, northeast is a 4.

[Reference: PowerPoint Slide 9]

And if you wanted to convert that to actual kilowatt hours, what we buy, pay for, you can see that, you know, there's not a lot of difference between the Lowcountry and the upstate; and what variation there is, is primarily due to what they call microclimate.

Greenville is a little bit cooler; solar panels are a little bit more efficient. Charleston has sea winds that keep popup storms off, so you get a little bit more sunlight. And Columbia, kind of in the middle, it's hot and probably a lot of popup storms.

But these are based off of 30 years weather charts from the almanac and this is from a website called PVWatts that is a very useful calculator of how much electricity you can get out of a solar panel at different locations.

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Interesting to know, April, the month that we're in, is the peak month and it's a combination of the lower temperatures and less of the type of popup storms that we experience. So this would actually be a peak month. And not surprisingly, December and January, with the short days and the stormier weather, being the least months. But the point is that in South Carolina we do have very good solar radiance and that's why we would say it's good to capitalize on it.

[Reference: PowerPoint Slide 10]

The second point of making solar work is the economic factors in the state. So it really begins with, you know, how much does electricity cost? We actually are very fortunate to have very competitive electricity rates in this state. And there is some variability between the different service areas, but South Carolina is known as having low cost electricity and we want to do everything we can to continue that trend.

Where the real economics come into play is how much you pay for your equipment. And that involves many factors. Obviously the solar panels; that price has been declining rapidly. We talked about the -- you know, the economy is a

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scale, if they build more solar panels, and how the price drops. But also, there are labor costs and soft costs and I'll talk about those in a minute. And then obviously the economy is a scale. We'll talk about some other factors like, you know, the avoided cost of power and the cost of capital and what kind of rate of return that an investor would want. These all go into the decision to invest in solar.

[Reference: PowerPoint Slide 11]

So let's start with, you know, around 12 cents a kilowatt hour, and that could be either what you pay today or what you project your average price to be over some extended period of time. You know, it is a fact that our power rates have been going on -- going up. And so projecting that into the future gives you part of the calculation, does solar make sense for an individual or for commercial operation?

But most importantly, and as this chart shows, it's the cost that has declined. So those sections up there are both for a residential system, a nonresidential, that would be like a commercial rooftop, it'd be a large warehouse or a big box retailer, and then utility would be a

solar farm such as the one that I showed you in Colleton. And in all of those cases you see how the price continues to drop. And since 2011, there's been a 60 percent drop in the cost of systems which is a combination of both the equipment and soft cost and labor to install them.

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[Reference: PowerPoint Slide 12]

Now, one thing that we see in the United States is that our cost is higher than a more developed solar country which is Germany. Germany, you know, has a different set of laws, a different set of policies. And I actually have operations in Germany. I speak with my German colleagues. And I said, you know, how is it that you can do it for so much less?

And it's very simple. They have a standard program, you call up, you want it installed, they come out, the paperwork is done almost instantaneously. And so all of the permitting, all of the labor cost, what we call soft cost, are much less, and this chart really illustrates it.

You see the difference between Germany and the United States, primarily in the categories of labor. And so they've been doing more

projects, there's a learning curve with labor and they get better, but also things like permitting, customer acquisition.

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Actually, solar companies spend a lot of money getting customers to sign up. I've read as much as, you know, 50 cents a watt just to acquire a customer. So a lot of expense goes into it. That's really pulling customers as opposed to customers coming to you, which is a more efficient way of managing costs.

Overhead, the supply chain, all of those are contributing. All this chart really says is that we have additional opportunity to drive more cost out by doing two things: Making the process for getting solar installed more efficient, less paperwork, less bureaucracy, also having our labor force more experienced and therefore more efficient, the learning curve in labor.

[Reference: PowerPoint Slide 13]

Other things that go into the equation, when we look at a solar project, a lot of input is to that. I talked about all of the numbers. But certainly you can use borrowed money to boost returns. Every businessman knows that

trick; it's done every day with every investment that -- that we do.

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The avoided cost of the utility is a big factor. Avoided cost is the fuel, and fuel projected into the future is a guess, it's an educated guess. You know, there's fuel future. You know, contract. But, essentially, what will the cost of fuel be in the future is an unknown, it's unpredictable.

And one of the big advantages of solar is there is no future risk of cost. What you pay today is what you pay, and you're going to get power for 20 years and you can predict what that power cost will be. That has a big advantage when you're trying to justify a project to an investor or a homeowner.

And then the last thing is that the investment community today does not expect huge returns. It's a very low interest rate environment; it's also a low return yield environment. And so today investors are looking for safe, predictable returns, an income stream, an annuity stream, that they can invest in, and so solar becomes very attractive to them. And as a result, they're willing to will take projects at

below 10 percent returns. And, of course, with competition, those returns are even driving lower.

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Our returns, for example, on the Colleton solar farm -- and there's still some uncertainty about all of the various components like property tax, but it's below 9 percent and we consider that a very good return for our -- for our -- for the risk that we take.

[Reference: PowerPoint Slide 14]

So you have solar radiance, sunshine and you have the economic background. How do you bring those together to actually develop a marketplace for this technology? And that really is the job of the policies and incentives that the various states and even the national government has put in place.

Now, certainly the federal tax created has been the largest driver to put this industry where it is today. And, you know, it's been said that that is a federal subsidy, and, you know, we have used subsidies in this country to develop all sorts of technology. So this is just another example.

As a result of those subsidiary -- subsidies, we have seen the price of the

technology drop, and that is a benefit to, you know, our -- our nation and all of our users. So the federal tax credit has probably been the single greatest driving force for the development of solar.

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But there are also state incentives, and we saw earlier that California had this huge market. By no surprise, they also have some of the best incentives in the nation as well to support that.

Net metering, which we have in the state, is a voluntary program. It's a good program; it's essential. And all the states that have seen solar develop, net metering has been a part of the formula. Today, unfortunately, that same formula has come under -- under challenge for whether or not it is a sustainable formula as penetrations get larger and larger. I'll talk about that a bit more in a minute.

Third-party leasing and power purchase agreements is a novel finance approach to allow investors that have capital to invest, to buy the equipment, and then rent it or sell electricity back to the consumer, the businessowner or the homeowner, and that allows people to avoid the

large upfront cost. It's been the subject of proposed legislation in the state. And, you know, today that is primarily, again, western states and mid-Atlantic states, but not any in the southeast at this time.

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Renewable portfolio standards, we're familiar with those there in our a neighboring state, in North Carolina. And that's where the policy makers say, we will have a mandate for a certain amount of renewable energy. And so then the utilities have to put programs in place to meet those mandates, those quotas.

Under that system there are, you know, pluses and minuses. You grow the industry, you grow a job market for that industry, but you also place some burden on the utility. And if you listen to the utilities, they'll tell you how, you know, that may result in some higher costs for them. I think that is still an analysis and a debate that there are many sides to and that also will be touched again in a few moments.

Property tax and sales tax abatements, those are also instruments to help the financing and the numbers fall in line to be a viable investment. In South Carolina, industrial scale

is considered machinery and equipment; that receives a manufacturing sales tax exemption. But if you're a residential owner of solar, you would pay sales tax on that and, you know, pay revenue to the state.

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With respect to property tax, property tax is generally assessed using a variety of members -- methods: It could be the cost approach, probably most often used; it could also be the replacement approach, not a lot of solar farms to compare to; and then there's an income approach.

Working with the Department of
Revenue, they believe that the income approach is
appropriate for solar farms and that will
facilitate the development of those projects in
our state and will result in tax revenue to the
counties that host the solar farms.

And so in that case, we're paying taxes to Colleton County and we're proud to be contributing to the tax base, and that makes us a more welcome addition to that county. And certainly as we're trying to develop, we want counties to welcome us in and not feel like we're, you know, coming to the -- to the county and

not -- and not bringing -- not leaving anything
behind.

So as I say, well, let's put all this together. What does this look like? So you take how much sunlight you have and, you know, cost of power and then the incentives that you have, and

[Reference: PowerPoint Slide 15]

8 how does the project add up?

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Now, this I may say for illustration, it's very simple, the numbers are numbers that I put in there, they vary. Like I said, every project is different. But if you were to take a retail price in my territory down in the Charleston area and you had a 5 kilowatt which is appropriate for a small home, you get, you know, about 7,000 kilowatt hours all for the year. Do the math, that's about, you know, \$900 a year that you would save.

That system cost you 20 grand, but you have some tax credit, 6,000 for the feds and 5,000 in South Carolina. So you end up with about an \$11,000 investment -- excuse me, \$9,000 investment. You've got about \$900 a year you're saving, 10-year payback, and that assumes that your power rates don't go up and assumes that the

solar panel doesn't degrade.

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Degradation is what happens as solar panels get older and they lose their productive output, and that's about one half of a percent per year. So it's not huge, but it needs to be factored into the details. For this illustration I chose to keep it a little simpler for you.

[Reference: PowerPoint Slide 16]

And now let's look at a large scale. So this would be the Colleton solar farm. This is not the Colleton solar farm numbers, but I put something in there just for illustration. And so if the feed-in tariff for the farm was \$80 a megawatt hour, it produces, you know, about 4,556 megawatt hours a year. It was a \$6 million investment, \$2 a watt.

And I might mention that the, you know, large scale projects are about half the cost of residential. And so there is definitely an advantage when you're investing in solar to go with a larger scale because it brings the cost down and makes the numbers look better.

But in this case, when you take all the math and take out the federal tax credit -- I did not count the state tax credit because it's

	23
1	capped at \$35,000 and it didn't make any
2	difference in the math, so I just set it aside,
3	but there is the \$35,000 credit spread over 10
4	years. The payback is about 11 and a half years.
5	It's about a 9 percent return on investment, the
6	number I mentioned earlier.
7	And I think the important thing in all
8	of this is that what we're talking about is a
9	long-term asset that has a long-term payback, but
10	it also has 10 or so years of productive
11	generation after it's paid for.
12	And so if you're looking to save money
13	in a hurry with solar, you probably need to keep
14	looking; but if you're looking for a long-term
15	investment, you're going to be in your home for a
16	while, then you need to you need to look at
17	this very closely.
18	Utilities are in it for the long hall.
19	We all know that we're going to need electricity
20	for, you know, as long as we're around and our
21	children and on and on. So if this technology is
22	added to our grid in the right way, it can
23	contribute in a productive way.
24	[Reference: PowerPoint Slide 17]
25	I'd like to introduce a concept called

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levelized cost. I apologize if you're familiar with this analysis, but I find it useful for solar because it takes into account what solar is all about. It minimizes future cost. You pay for it now, you have nominal operating cost in the future, you pay some property tax, you pay some insurance, you mow the grass, that's about it. There's no employees involved.

And so if you take the asset, a solar farm or a nuclear plant, what did it cost to build it, how much are you going to pay for fuel and operating cost and maintenance over its lifetime, whether it's 20 years for a solar farm or 50 years for a nuclear plant? You know, how much do you pay for fuel over that lifetime? And then divide it by the output of that asset over its lifetime, you get what is referred to as levelized cost.

And this is very instrumental because what it says is that solar is comparable with conventional generation. And so as Commissioners, when you're asked to evaluate a rate increase, you want to know, well, what is the avoided cost and what is this going to cost us? And we don't want to pay more than what we paid in the past year.

What I suggest is if you look at the

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cost over a longer horizon, that may be a better investment decision. And I believe that the legislation and the way that policy leaders are thinking now, they want you to consider the long-term benefits. It may be that, yes, it's a little bit more expensive than avoided cost now, but where we will be 10 years from now? And that's what we want to have in our system. Our pieces of our generation, it's diversified and fixed.

[Reference: PowerPoint Slide 18]

And this chart is very small, and I

apologize for that. But the bars on this chart

reflect a range of cost and levelized cost per

megawatt hour. And what it shows, if you look at,

I think, the third line down is conventional,

crystalline, photovoltaic technology. So solar

panels that you're familiar with.

And it shows that the levelized cost today is between, I think, about 84 and \$100 per megawatt hour. In conventional technology, for example, a combined cycle gas plant is in the same range. So using the levelized cost approach, the technologies are comparable, and the reason why I make the statement.

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[Reference: PowerPoint Slide 19]

So the solar industry has created a lot of tension with the utilities in the national scene and there's a lot of reasons for it and I'm sure you're well read on some of those reasons. But the things that are being fought in other states, and will likely be debated in this state, are around net metering and what is the value of solar.

And depending on your perspective, you can look at it as simply, you know, the cost of the fuel avoidance and perhaps some of the infrastructure for distribution and transmission lines, or you can start looking broader than that. I have a chart and it goes into a bit more detail, so I'll move to the next item.

Third-party ownership, hotly debated.

Many states believe that that is allowing
third-parties to move into the exclusive territory
of utilities. Utilities are uncomfortable with
that, they have many reasons for that discomfort;
but as different states adopt leasing, we have
seen it has been the largest reason for growth and
it's primarily because it takes away the upfront
cost. But it does involve the property owner, the

residential, to sign very long-term agreements.

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If you're in your house and -- you know, most Americans move fairly often, you know, that's an issue. And so, you know, leasing has not been around long enough to really know how it will play out. I think it will play out okay. I think we'll muddle through it, but I don't believe that all of the issues have been resolved.

I do believe that the companies that are going to be in that business need to be strong; they need to have very strong consumer oriented cultures that take care of the customer and that can be there for a long time. But leasing is a valuable way to grow solar and it certainly is something that is hotly contested in the states that are debating that today.

Renewable portfolio standards. States that believe in them, they go with it. Some states don't believe in them and they're dead on arrival. I believe South Carolina is one of those states that does not see renewable portfolio standards in its future. I would agree with that as a policy for our state.

Grid modernization and integrating.

This is really the main deal. I'm talking today

about solar, and solar is really yesterday's news. The news of tomorrow is, how do you store that solar electricity that you make during the day, but you need it at night? And that's going to be energy storage.

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When the battery technology gets to the point where it's affordable, then solar really plays a big part. And what I'm told is we need to understand solar so that we're ready for that next technology that comes along. And then you combine smart meters and voltage control and making the entire grid managing the demand.

I think we all know that we have a lot of idle generation capacity. Every utility does. We build assets for our peaks and our peaks don't happen every day. If we can spread that energy out, that lowers cost. And the smart grid is going to lower cost by managing demand and solar is just going to be one of the inputs.

So that's why it's important for us to get this experience today. I believe that's why the utilities support this. They see the technology evolving, they don't want to be left behind. I know South Carolina doesn't want to be left behind.

1	And that kind of gets into just, you
2	know, integrating solar into the wholesale market.
3	There's all sorts of rules and protocols, a lot
4	territory that needs to be worked out and is still
5	evolving. And because there's competing
6	interests, there's obviously conflict. And what I
7	find is managing that conflict in the constructive
8	way is what South Carolina has proven to do, and I
9	want to talk about that in just a minute as well.
10	[Reference: PowerPoint Slide 20]
11	This chart has been widely circulated
12	and it's used by advocates of solar to say there
13	are many values to solar other than just the
14	energy that comes out of it. You know, there's
15	the capacity and how it helps reduce the
16	transmission and line losses. It talks about grid
17	support services, financial risk, all of the
18	securities.
19	Sometimes you hear about military
20	bases wanting more secure energy. You know, the
21	Department of Defense is building more and more
22	renewable energy behind the fence for security.
23	And then certainly all of the social
24	benefits which goes to everything from, you know,

traditional, conventional. Emissions. If there's

25

a carbon tax one day, this is an avoidance of it.

Certainly the jobs that it creates and the

economic development. These are all benefits that

advocates of solar would argue need to be included

in the value of solar.

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And so it's the value of solar that is going to be your biggest challenge. I believe, if we're successful, that this Commission is going to be charged with how to figure out, what is solar worth? And that's a -- that's a big question because nobody knows right now. Everybody has an opinion. I don't think that it has been settled. And I respect the job that's ahead of you.

[Reference: PowerPoint Slide 21]

So I want to take the remaining time to just brief you very quickly on what is moving through the legislature. And you may have heard, and if not, I'm proud to say that we have formed the coalition in our state of utility interests and I'm talking 22 co-ops, all of our investor-owned utilities, Santee Cooper. We have conservation groups, we have a business community, all supportive. A number of other groups are not opposing and taking more of a neutral stance, but certainly you can't ignore that our manufacturing

31 community, our nonprofit community, no one in the 1 2 state of South Carolina opposes this legislation. 3 And for that reason, I believe it should be And if it is passed, this briefing will 4 passed. help you understand what's coming down the pike. 5 So first off, a Distributed Energy 6 7 Resource plan. This is more than solar. This is all renewable energy, this is wind, this is 8 9 battery storage, this is micro, hydro, it's This encompasses all of the renewable 10 11 energy space and it creates a program that allows 12 those technologies to be cost recovered by the 13 utility. We mentioned earlier how avoided cost 14 15 is the standard today. Well, these technologies cost more than avoided cost. How does the utility 16 rate recover that avoided cost? This program is 17 18 designed to allow them to do that, and in doing 19 so, it promotes the development of the program 20 that it's designed to create. And that is a 21 reliable and efficient, diversified generation 22 portfolio. 2.3 [Reference: Distributive Energy 24 Resource Program Allocation and Pro Forma 25 Expenses]

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This sounds scary because that sounds like, well, we're going to charge everybody more money. And sometimes to get something good off the ground, you have to invest in it. But these caps are very low. And I provided a spreadsheet that you also have, and what it really tells you is that we probably will spend less than half of this if we do everything the plan allows. So these are very de minimis amounts of money, but I'll leave it for you to judge for yourself. \$12 residential a year, you know, \$10 a month for commercial, \$100 a month for industrial.

[Reference: PowerPoint Slide 22]

The utilities are not being forced to do this. This is something that they would do, they would choose to do. They opt into it. But once they opt into it, they're committing to some specific goals. And those goals are essentially to build 1 percent of their generation capacity in large utility scale type projects; 1 percent in less than 1 megawatts. So this would be large rooftop and residential. And of that 1 percent, a quarter of it would be residential programs. When those targets are met, utilities also have the option to make investments with their own money in

this space as long as it's reasonable and prudent.

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The amount that this could generate is around 300 megawatts and that would require that the co-ops in Santee Cooper also participate, but about 250 of that would be from the investor-owned utilities based on the goals that they set forth, if they opt in.

[Reference: PowerPoint Slide 23]

One of the keys to finding a compromise with such a balanced group was to address all the issues that everyone, all the stakeholders, felt was important. And certainly looking at the net metering and how that is done today and how it needs to be done in the future, anticipating higher penetration.

And one of the mistakes, in my opinion, and other mistakes made, is they put policies in place without thinking two moves ahead. And now they have this high penetration and they're questioning, you know, is that a sustainable policy? And now they're fighting it and it's very ugly fight, frankly, and not that productive.

I think it is smarter to make sure we have the right rules for the long-term, and this

component of the legislation addresses that right upfront. And, in fact, if this legislation is passed, it'll be one of the first things that gets addressed within 30 days. The Commission would be asked to open the docket to start looking at it.

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But some of the things that are included in the bill is that it does increase the capacity to 2 percent. I think it's a .2 percent today. It also allows systems to be larger than 100 kw. So it could be up to a megawatt. I know that's important for someone like Furman that has wanted to build larger projects.

I built, again, for the boss, a project on the Carolina Ice Palace. We would've like to have done 300 kws, the law said it could only be a hundred, so we built a hundred. If this law passes, you know, we'll expand it and, you know, we'll put some people to work and we'll add some more capacity.

One of the other things that people are -- you know, kind of feel miffed about is, you know, you get a credit if the monthly generation is high, but if you don't use that credit, it gets zeroed out. We believe a more fair approach is to buy those credits at the end of an annual cycle at

avoided cost. And that, again, is just a good 1 2 improvement to our current net metering. 3 But the biggest issue before the -all right, somebody help me. 4 Thank you. [Reference: PowerPoint Slide 24] 5 The biggest issue that we have to come 6 7 up with is the value of solar that I mentioned earlier. And I'm not going to read through here, 8 9 but we need a methodology and then once the methodology is determined, then we need to put the 10 11 numbers to it and then we need to have a hearing and then we need to all agree and move forward 12 from that. 13 [Reference: PowerPoint Slide 25] 14 15 I'm going to move quickly through a couple last slides. Third-party leasing is 16 17 included. This is something that has been asked 18 for in our state and utilities agreed to add it. We would be one of the first in the southeast to 19 20 do so and so this is quite an accomplishment and, 21 I think, indicative of the type of compromise that 22 we've accomplished here. [Reference: PowerPoint Slide 26] 2.3 24 And then finally the solar tax credit 25 amendment. This simply allows larger scale

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projects to access the tax credit of 25 percent.

It's designed to help support those projects that are under a megawatt. And the important point here is that this is investor or private market initiated. The DER program is primarily utility initiated. Utilities want to do it, but with this program, any individual that wants to put a project can do it and those projects are viable at avoided cost. So the utilities have no concerns with that.

[Reference: PowerPoint Slide 27]

And so finally I would just close, I will try to close, by saying that the renewable energy sector is a very dynamic and growing market. South Carolina has been undeveloped in that market; we want to change that. Our energy policy leaders are committed to this program. And we want to create jobs. We want to see this industry grow. It's an attractant to new industry to our state. Fortune 500 companies that want to come here like to see these policies. It reflects well on us as a state.

And because of the collaboration among the stakeholders, we were able to come up with a comprehensive plan. Very proud of that. And we

believe, and not just us, but national solar journalists and other advocates say we may be the model for the future. So we're very pleased with that. And I thank you for your time. And it's hard to get all that in, I'm sorry.

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CHAIRMAN HAMILTON: I think you did a great job, Mr. Reeves. It was very thought provoking and I'm sure it's going to be extremely helpful to the Commissioners. I believe earlier you said you would accept questions if some of the Commissioners have some.

And at this time I'd like to ask the Commissioners. Commissioner Howard.

enjoyed your presentation very much. It's interesting to see. Years ago, and I won't put a time line, when solar just came along and started talking about at national organizations and realized where solar would be and probably where we'd be going, there was an issue with the state of South Carolina. And the two things that came to mind, and I'll admit at that time it didn't make sense to me, still doesn't make sense to me today, but I'll ask you to explain it. One of them was South Carolina would be a poor solar state because

of the amount of cloud cover. And I didn't realize that South Carolina had any more cloud coverage than any other state, and so I wondered about that.

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And the second thing was the angle of the sun rays and that too didn't make a whole lot of sense. And I don't know if these are just concepts that I've heard, or have you heard those concepts or could you elaborate on them?

MR. GRANT REEVES [ORS]: Well, earlier we had that solar radiance map and so that does take into account cloud cover. And, you know, on average, I think about a third of our days are cloudy and that is not a bad condition. We get --you know, the chart shows we have a very good outcome.

is very important. It's actually one of those numbers that you can tweak to get, you know, a different result. I read an interesting article where some people are advocating a more western sky tilt so that the production is coinciding with the peak demand, an interesting idea. It may not maximize the output, but it maximizes the output when you need it most. But certainly, you know, both tilt and -- well, tilt is something that's

important.

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The Colleton solar farm actually is unique because a portion of the panels are on motors and they move with the angle of the sun to maximize. And one of our goals is to -- to learn and demonstrate that the higher cost of that mechanics to move the panel justifies the incremental output. And, you know, from my own data, there's about a 9 percent premium for the technology and a 17 percent greater output. So we -- we conclude that that is a good investment, to spend a little bit more to get more output.

COMMISSIONER HOWARD: Thank you very much.

COMMISSIONER RANDALL: Mr. Chairman.

CHAIRMAN HAMILTON: Commissioner

17 Randall.

COMMISSIONER RANDALL: Thank you.

Mr. Reeves, thank you very much for your

presentation. That was -- it was very good and I

appreciate your good information. Just a couple

of -- a couple of questions that I had in an

education vein here. And I followed the Energy

Advisory Committee meetings from back from my days

at PMPA and with -- in following this legislation,

so I applaud you for your work there.

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A couple of things that I've asked at other -- we go to a lot of education on distributed generation on solar, trying to learn as much as we can because this -- as the legislation comes in, we'll be -- from an economic side, we'll certainly be -- be dealing with that.

Two or three things that I wanted to ask you about, and off of some of it that you -- stuff that you had talked about was, one of them was solar degradation. I've asked this before.

When you're talking about degradation, I asked one time about, in my house in Clinton -- that's Clinton as most people would say, but we call it Clinton where the tea is sweet but the T is silent.

I have pecan trees and pine trees and get a lot of pollen. How does that affect the performance of a solar panel? Do you end up with another industry that cleans solar panels with that kind of thing?

MR. GRANT REEVES [ORS]: Great question as well, and thank you for that. So anything that gets on the solar panel is going to reduce its efficiency. And certainly pollen in our part of the world, dust in the desert, is a big problem.

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Fortunately we get enough rain that it washes the pollen off. But part of the Colleton solar farm is to answer the question, well, does it work like I just said, does the rain wash it off?

And so it was reported to me that there is a small amount of pollen residue on the panels after the rain. And as you know, pine pollen is very sticky and it may well be that you have to physically wash that off. And I think the jury is still out. I would believe that people in North Carolina have more experience with that and it's another example of why we need to be in the industry so we can learn these on-the-ground elements.

But our experience through the pollen season so far is that that soiling, as it's known, has been less than 1 percent and you have to make an economic decision. When the soiling gets so high and the efficiency drops, it pays to have labor go wash the panels. And I suggested they should wash them on a rainy day.

COMMISSIONER RANDALL: Good idea.

Yeah, that's just always been -- I've always

wondered that because it doesn't wash off very well

off my windshield. There's pine trees sitting in

42 1 my neighbors yard. When you're talking about levelized 2. cost over time, do you include capacity factor in 3 4 that? MR. GRANT REEVES [ORS]: 5 Capacity factor is a very important element of that 6 7 calculation. I mean, obviously, a nuclear plant runs 24 hours a day, capacity factor is 8 9 99.5-something. Solar is about 15 percent. Wind, about 30 percent. 10 11 COMMISSIONER RANDALL: Thank you. MR. GRANT REEVES [ORS]: But that is 12 included in the calculation. 13 14 COMMISSIONER RANDALL: Okay. 15 one thing. Just one last question, if I may, Mr. Chairman. 16 17 CHAIRMAN HAMILTON: Yes, sir. 18 COMMISSIONER RANDALL: When talking 19 about California, the big penetration that 20 California has, and we've certainly listened to 21 presentations from the commissioners and from the 22 utilities in California on all sides of that issue, 2.3 and one of the things that they really have been 24 working on and talking about is safety. And so I'm

just wondering what -- in this legislation or in

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1 the talk, are there standards or installation 2 standards and codes that everybody is going to 3 agree on to make it safe or for the folks that are going in to --4 MR. GRANT REEVES [ORS]: 5 COMMISSIONER RANDALL: -- do work on a 6 7 house or a business that has a combination of 8 traditional based solar power and also with 9 renewable power? MR. GRANT REEVES [ORS]: 10 Absolutely. 11 Written into the legislation are the national codes and standards and I think there's about four or 12 13 five that are referenced specifically. And, of course, the interconnection agreement further 14 15 defines what those requirements would be. 16 We chose not to be so prescriptive in the legislation, but rather allow both the 17 18 regulatory process as well as the utility 19 interconnection agreement to address those. But I 20 actually believe that's another industry that will 21 grow and that would be essentially the quality 22 control inspection task, to be sure that every 2.3 installation meets the right requirements. 24 And I certainly have encouraged all of 25 my members to get the type of certifications,

1	national certifications and credentials, that							
2	designates them as qualified to do this type of							
3	work. And we would certainly encourage consumers							
4	to only deal with qualified professionals.							
5	COMMISSIONER RANDALL: Thank you,							
6	Mr. Reeves. Mr. Chairman, that's all.							
7	CHAIRMAN HAMILTON: Commissioners?							
8	Commissioner Whitfield.							
9	COMMISSIONER WHITFIELD: Thank you,							
10	Mr. Chairman. Thank you, Mr. Reeves. Good to have							
11	you with us and I appreciate that informative							
12	presentation.							
13	You touched on one of your slides, when							
14	you were talking about future utility business							
15	models, and I think you got into a little bit about							
16	grid modernization and integrating renewable energy							
17	into the transmission and distribution systems and							
18	you were talking about storage.							
19	And when I get on that subject, I think							
20	about some of our best examples here in South							
21	Carolina. A couple of our utilities have hydro							

almost like a battery that's able to juice itself

pump storage. And years ago when it was built, it

was considered a great innovation. And here in

2014, it's still considered a huge, huge asset,

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up at night and then release it as it's needed.

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And I guess that leads me to my question. You touched on storage, and as you see technology unfolding, what do you see that would allow us to store this and utilize it as needed?

MR. GRANT REEVES [ORS]: Yeah. Well, I'm glad you mentioned about hydro pump storage. It probably is the most effective way and the fastest spinning asset that utility can utilize. So I think we're fortune to have that capacity.

The battery technology innovation today is happening not necessarily for energy storage, although that is a focus for many companies, but it's really being driven by the electric car market. You may have read that company Tesla is building a giga factory, and if you look at the information that is being published about that, that is going to be one of the keys to driving the cost of battery storage down.

It's even been suggested that as more electric car vehicles are in the population, that they would actually be accessed and you would be pulling power from that. It's part of the demand management capabilities that a modern grid would have capability of. And so really that is, some

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1	people say, the holy grail today, is battery
2	storage and getting higher energy density at a
3	price point that makes it cost effective.
4	And I have been told I'm not as well
5	versed that the price declines in that
6	technology development are mirroring what we have
7	seen with solar. It's not here today and whether
8	it's 10 years away or less, you know, we're all
9	waiting to see that. But I think what's happening
10	with Tesla and their battery factory, and if that
11	comes to fruition and their business model is
12	successful, that is going to drive the cost down,
13	according to the analyst that I read.
14	MR. WHITFIELD: Well, thank you.
15	That's certainly the technology that we certainly
16	are watching. And, as I said, these assets that
17	were built years ago still continue to be such a
18	huge asset in that arena. Thank you. Thank you,
19	Mr. Chairman.
20	CHAIRMAN HAMILTON: Thank you.
21	Commissioner Hall.
22	VICE CHAIRMAN HALL: Thank you. Thank
23	you, Mr. Reeves, for your presentation. Your, I
24	believe, second slide with the price decline, does
25	that include subsidies or no?

MR. GRANT REEVES [ORS]: That is actual cost. So that is without subsidies.

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VICE CHAIRMAN HALL: Okay. And what do you anticipate happening after the federal credit expires?

MR. GRANT REEVES [ORS]: So there was an article that I read last night about wind technology. And wind technology, it's interesting because their federal subsidies expired in 2012 and then they were extended in 2013. And that unpredictable climate, it was cited, led to 30,000 job losses in wind technology. And so the article was from the head of the solar energy industrial association and they're, of course, advocating for an extension of the federal tax credit beyond 2016.

I would say that there's a fair chance that there will be a lull in activity if the credit is not extended and they'll be a lot of very aggressive lobbying to have it extended. You know, I cannot predict what the future may hold, but I would -- I would plan for that credit to expire and that's why I have such an urgency for this legislation because I'd like to utilize those federal dollars in our state. You know, use those federal dollars along with our instate investment

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1	dollars and get some infrastructure in the ground.
2	However, the price declines may
3	eventually equal the difference between that 30
4	percent decline. You know, if prices drop another
5	30 percent, then we're, you know, in the same place
6	we are today. I don't believe that the solar
7	industry will come to a complete, abrupt stop, but
8	it certainly removes a major incentive. All things
9	being equal, I think it's safe to assume less
10	activity.
11	VICE CHAIRMAN HALL: Thank you. I just
12	have one other question out of curiosity. How
13	much how many acres is the solar farm in
14	Colleton? How much land does that take?
15	MR. GRANT REEVES [ORS]: There's 14
16	acres inside the fence for three megawatts. Good
17	rule of thumb is five acres per megawatt.
18	VICE CHAIRMAN HALL: Okay. All right.
19	Thank you. Thank you, Mr. Chairman.
20	CHAIRMAN HAMILTON: Commissioner
21	Fleming.
22	COMMISSIONER FLEMING: Thank you, Mr.
23	Chairman. Good afternoon.
24	MR. GRANT REEVES [ORS]: Thank you.
25	COMMISSIONER FLEMING: Delighted to

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1	have you here today. That was a very interesting
2	presentation. And I certainly would've loved to
3	have been a fly on the wall during the meeting when
4	all of you were together writing that legislation.
5	I'm sure it would've been quite informative and
6	stimulating, to say the least.
7	MR. GRANT REEVES [ORS]: You would have
8	been proud of us.
9	COMMISSIONER FLEMING: I am proud that
10	you all got together and you came up with something
11	that you're all agreeing to.
12	And I believe we have one of the
13	installers that was here. Weren't you here for our
14	net metering a few years ago
15	AUDIENCE MEMBER: Yes.
16	COMMISSIONER FLEMING: speaking to
17	them as well?
18	I'd like to you didn't really go
19	into the business model which certainly would be a
20	major could be a major change from the way we've
21	done business in the past. Could you elaborate a
22	little bit more on that?
23	MR. GRANT REEVES [ORS]: The utility
24	business model or the solar business model?
25	COMMISSIONER FLEMING: Well, it seems

to me that we'd be looking at the utility business 1 model for our state which would certainly 2. 3 involve --MR. GRANT REEVES [ORS]: 4 Sure. COMMISSIONER FLEMING: -- the solar 5 industry, I would imagine. 6 7 MR. GRANT REEVES [ORS]: Well, you 8 know, first off, this is a very modest plan. 9 don't think it materially affects the utilities business model. The utilities are forward thinking 10 11 and so they want to be sure that things that happen 12 now don't have future consequences. And I think 13 that's part of the learning from other states. I believe that the utilities have 14 15 embraced solar, provided it's done in a way that is not disruptive to their business model and I 16 believe that the utility business model is 17 18 something that we need to preserve. There have 19 been advocates that say, you know, let's break the 20 I'm not one of them. utility model. 21 When the ice storm hit, I was grateful 22 that the utilities got my power back on. And I 2.3 think as an industrial customer, solar will never 24 power my factory. So we need the utility model and 25 we need it to work, but we also need to integrate

these new technologies.

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The greatest opportunity is to even out our peaks and our valleys on our infrastructure. It's just a real shame that we have so much invested, embedded in our rates for capacity that's just waiting for that coldest day of the year. And so the technologies that allow us to smooth them, to store the energy, demand management, time of use rates, smart appliances that come on at night, those are all things that the new business model has to embrace in order to offset the pressure of rising costs. I mean, fuel, labor, those things are all going up.

In my manufacturing world, I win by being more productive, getting more out with the same. The goal for the utilities is to get more out of the same, more power when we need it, even out the peaks. And I think solar will be a part of the technology that will allow us to do that. So we're not here to form a revolution and break the utility model. We're here to make the utilities strong because we need the utilities.

COMMISSIONER FLEMING: And during these discussions -- I don't know if it's premature at this time, but Commissioner Randall was talking

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about California, and there was a meeting that I attended that California -- a utility from California, the CEO, and also from Colorado, spoke, talking about, they have a lot of these initiatives in place, but what they were learning was that there was kind of an imbalance.

The people who could afford the solar panels were not necessarily the people who had -- who had income, but there really was no -- so the basic facility charge was not really covering the cost of taking care of the line. And the people who were paying the basic facility charges -- that's what I was trying to say -- were not those who necessarily could afford that extra money.

But as you said, anytime there's a problem, and especially -- it doesn't matter what income level you are, you want those lights to stay on irregardless.

MR. GRANT REEVES [ORS]: That's right.

COMMISSIONER FLEMING: So have you talked anything about, as you're looking at the business model going forward, a way to certainly maintain the integrity of the transmission line? And it certainly is going to be in a very dynamic phase as we move forward and this technology

advances. Was that a part of this discussion or is this kind of coming at a later point?

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MR. GRANT REEVES [ORS]: Well, a lot of what -- you're talking about this kind of, you know, collaboration and compromise. A lot of what we worked on was a process to address the tough issues and certainly, you know, the cost of service and who pays for it, and essentially, you know, how does the utility cost get allocated?

And, you know, words have been used like cost shifting and benefits. I mean, let's face it, the utility rate model does not reflect the way that costs actually are incurred. And there's disparities between rural and urban, there's disparities between industrial and residential. So it's not a perfect model.

And, you know, I believe the way that the model works today is primarily a volumetric charge that carries a fixed component to it. And so the problem is, of course, as people use less, they're paying less fixed cost and that fixed cost falls on more people.

You know, that is the question to be answered. This hearing, you know, we'll never get to it. I have an opinion, everybody in this room

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1	has an opinion. Let's have the debate, let's, you
2	know, do it maturely and constructively. And so
3	when we have an established understanding, now we
4	have a strong foundation a business and a
5	marketplace can grow.
6	I believe for South Carolina to grow,
7	it needs to understand what the rules will be for
8	an extended period of time so that investments can
9	be made. That's the goal that we have. I don't
10	know if I answered your question.
11	COMMISSIONER FLEMING: Well, let me
12	just well, I know there's a lot to be decided
13	MR. GRANT REEVES [ORS]: Yeah.
14	COMMISSIONER FLEMING: in this
15	process.
16	MR. GRANT REEVES [ORS]: That's right.
17	COMMISSIONER FLEMING: It will be
18	interesting to move it forward and see how it all
19	works out.
20	MR. GRANT REEVES [ORS]: That's right.
21	COMMISSIONER FLEMING: And I think, as
22	you said, we have the advantage of other states
23	having struggled with these things as well.
24	Let me ask you this, we have had solar
25	panels, certainly maybe not to any large degree,

1 but for what maybe... MR. GRANT REEVES [ORS]: Mr. Wood has 2. been doing it for 30 years. 3 COMMISSIONER FLEMING: Well, I think 4 5 2008 is when we did our net metering. So we could -- there should be enough of those panels out 6 7 there to know what the effect of environment has 8 had on them and how they're holding up --9 MR. GRANT REEVES [ORS]: Oh, yeah. COMMISSIONER FLEMING: 10 -- to that. Can 11 you talk a little bit about the experience thus far? 12 13 MR. GRANT REEVES [ORS]: I'm probably not the best person to answer that question, but 14 15 I'm not aware of any solar panels having a 16 premature life. They're designed for 20 years and, in fact, even quaranteed for 20 years. So I think 17 18 the technology that you have today, these are going 19 to, you know, live their full intended life and I'm 20 sure the technology 20 years ago is inferior today 21 both efficiency and so forth. That is not a risk 22 that I hear very often, a technology risk. COMMISSIONER FLEMING: Okay, very good. 2.3 24 Well, thank you again for a very interesting 25 presentation.

MR. GRANT REEVES [ORS]: 1 Thank you. CHAIRMAN HAMILTON: 2. Thank you. 3 Commissioner McGee. COMMISSIONER McGEE: 4 Thank you, 5 Chairman. Thank you, Mr. Reeves. As always, I really enjoy these ex parte hearings. A lot of 6 great stuff to learn. You mentioned several times, 7 8 talking about learning about solar and getting 9 involved in the industry. How would you say, or do you know if -- how are our technical institutes 10 11 like Midlands Tech here in the Midlands? You know, 12 how are they either preparing or do they already 13 have programs to train folks to, you know, manufacturer solar panels, be able to work on them? 14 15 I know they've been great with -- they ran up a program for welding with V.C. Summer, 16 17 we're trying to get that nuclear welding 18 certificate. How have they been a part of this 19 discussion. 20 MR. GRANT REEVES [ORS]: Well, I would 21 say that they have not been directly involved in 22 the conversation. Mary Thornley at Trident Tech 2.3 and us have, you know, talked about a program when 24 it's time to start training those technicians. 25 But, again, you know, a marketplace has to sort of

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be established in order for the technical schools to provide the skill set. So I guess it's a little bit of, you know, getting the cart ahead of the horse at this point. But I know our institutions would embrace it as they have the other skill sets that we need to support industry in our state.

And, you know, I'm very confident the skill set, whether it's, you know, mechanical, electrical, these are really skill sets that are already -- I mean, a lot of people will argue why solar is such a good job creator, because it uses skill sets we already have, traits that we already know. So people can very quickly adapt to the new technology if they have electrical training or roofing training or mechanical training or even construction in general.

So it's not a difficult skill set to learn, but as we said earlier, you know, you're dealing with something that safety is important and so you need that certification to -- to ensure that only qualified people are doing it.

COMMISSIONER McGEE: Absolutely. Thank you, sir. Just one last quick one. Based on what's happened in other states, like say we -- assume we get the green light and we're able to --

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where do you see the penetration hitting most of it, on the utility side or the solar farms or do you see a lot of residents trying to jump on? And, you know, like you said, that they have to get -- need the conception of, hey, I'm going to lower my bill if I do this. Where does the penetration seem to hit first?

MR. GRANT REEVES [ORS]: I believe the utility scale will be one area that will see activity very quickly. If the tax credit amendment passes, I think you'll see a number of rooftop projects. That would be the 1 megawatt-and-under scale. Those would be initiated very quickly.

On the residential, that's an interesting dynamic. You know, the thought that there's going to be some new rules, what do you like, do you like the old rules you know or the new rules you don't know? Might create a little bit of a motivation for some people.

I think generally a lot of people are watching solar. At the end of the day, if it doesn't make economic sense, the numbers -- if the numbers don't add up -- you know, I want to do the right thing for the environment, I'd like to create jobs, but, you know, it's our money -- you know,

the numbers have to add up. This legislation helps 1 2 make the numbers add up because it is a long view, 3 it's a 10-year view, and that is a different decision than, I want to pay back in one year. 4 5 COMMISSIONER McGEE: Thank you, Mr. Thank you, Mr. Chairman. 6 Reeves. 7 CHAIRMAN HAMILTON: Thank you very 8 much. I have a couple questions I want to throw at 9 You know, our Commission Staff and Commissioners themselves are more aligned with the 10 11 southeast commissioners than we are from the nation as a whole because we have more things together. 12 13 And some of the questions that we hear at some of 14 our SEARUC meetings have to do with reliability and 15 affordability, and those are the two big things 16 that any commission has to live and die by, to be 17 honest with you, every four years. 18 Let me ask you a couple of questions. 19

Let me ask you a couple of questions.

Storage seems to be the animal that's going to allow storage to take a giant step. And we've discussed that some today, we've discussed it in all of our SEARUC meetings and it still is something that we look back on and we don't rejoice that we've got it today. How do you see that? How do we move with it?

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MR. GRANT REEVES [ORS]: 1 With storage? CHAIRMAN HAMILTON: Yes. T think 2. 3 that's the -- that's the key, isn't it? MR. GRANT REEVES [ORS]: Well, storage 4 5 increases that capacity factor that we spoke of earlier. 6 7 CHAIRMAN HAMILTON: That's what you're 8 looking for with it? 9 MR. GRANT REEVES [ORS]: Well, it is, but also, you know, there is a certain amount of 10 It's noise 11 penetration that the grid can absorb. 12 on the grid. You know, Newport fires up one of 13 their burners, it's a huge demand jolt. You know, more than a cloud covering up a solar farm. 14 15 grid can manage it. You know, what's important is that the utility identifies the right locations for 16 the solar farms where they're on a large enough 17 18 demand load so that the intermittency is managed. 19 And certainly as the study that was 20 done in 2011 said, you know, 5 percent penetration, 21 the grid can absorb it. We're talking about 2 22 percent penetration here. So as long as it's 2.3 located in the right place, I think we can make 24 that step without risk and, at the same time, we 25 gain all of the experience that we need and, you

1 know, we're prepared so when battery storage comes 2 along, we're not, you know, still in the first 3 chapter when everybody else is in the third chapter. 4 5 CHAIRMAN HAMILTON: Thank you. And the next question that we hear a lot about is that in 6 7 the southeast, the land mass situation, that most of our land is either under industrial development 8 land, forest land, or farm land. And it seems to 9 take an awful lot of land mass for a kilowatt of 10 So what -- how do we stand on that? 11 solar. 12 rooftop as effective as solar farms? 13 MR. GRANT REEVES [ORS]: Well, I made the point that, you know, the larger the scale, the 14 15 least cost --16 CHAIRMAN HAMILTON: Right. MR. GRANT REEVES [ORS]: -- and that is 17 18 an important part of the formula. So the number. 19 Land owners that I speak to are more than happy to 20 put their land to use. 21 CHAIRMAN HAMILTON: I understand that. 22 MR. GRANT REEVES [ORS]: So there's a 2.3 lot of unproductive land and we're not talking 24 about building these in urban centers. 25 talking about building these where land is

essentially underutilized. And if it provides 1 property taxes for those rural counties, I think 2. 3 everybody is happy with that situation. You know, we're not talking about, you know, carpeting the 4 5 southeast here. It's a good question. I want to calculate how many square acres 300 megawatts is. 6 7 I guess I can do that almost in my head. 8 CHAIRMAN HAMILTON: Sounds like a few. 9 but these are some of the questions that we hear and we need somebody like you that can give us the 10 11 answer because you aren't usually in our meetings. So the next thing we talk about is job 12 13 development. And you earlier stated that the solar 14 industry is already ahead of coal which seems to be 15 losing ground now and solar seems to be gaining 16 ground with natural gas. But where are the solar On the solar farm that you have in Colleton 17 iobs? 18 County, how many people are assigned to that farm? 19 MR. GRANT REEVES [ORS]: As I said, we 20 don't employ anybody. 21 CHAIRMAN HAMILTON: That's what I 22 thought. 2.3 MR. GRANT REEVES [ORS]: Other than the 24 crew that comes out and mows the grass. 25 CHAIRMAN HAMILTON: Well, the solar

people that are employees are the ones that create -- install the facility and sell the facilities, and we don't have any maintenance and things, any great extent of people in that area?

Because jobs is a big --

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MR. GRANT REEVES [ORS]: You know, not to a great extent, of course. Again, you know, I think there's a maintenance routine that requires a couple of visits a year on the equipment. It's certainly on the development side. You know, we're talking about engineers and surveyors and environmental engineers. We have insurance companies that get involved. We have finance people that do that. So there's a support industry. Of course, all of the laborers.

If we're fortunate to attract industry to that state, then those would be job creators as well, but that is not a lot of industry in this state today. You know, the real -- the real advantage is the people that supply it. You know, Shealy Electric is an electric supply house; they benefit from solar farms. Gregory Electric, they had their engineers, their workers, their laborers. Certainly the fence company, you know, got a job out of it.

The -- we did -- we did our best effort 1 to hire as many South Carolina companies as we 2. 3 could, and I'm proud to say -- you know, I don't know the exact number, but more than 70 percent of 4 the labor came from South Carolina and so those 5 dollars were earned and spent in South Carolina. 6 Well, I think these 7 CHAIRMAN HAMILTON: are some of the stories that need to be heard more 8 9 than they are being heard. MR. GRANT REEVES [ORS]: 10 I agree. 11 CHAIRMAN HAMILTON: I think it'd make 12 it better because these questions that I'm asking 13 you always come up at these hearings and the meetings that we have concerning these matters. 14 15 And when Mr. Scott introduced you, he said you were the man with the answers and I think he was right. 16 MR. GRANT REEVES [ORS]: 17 Thank you. 18 CHAIRMAN HAMILTON: I won't ask you all 19 the questions today that we have in the background, 20 but, again, I want to thank you for being here. 21 appreciate it. You've given us a lot of food for 22 thought. And as the legislature goes down the 2.3 road, I'm sure we'll wind up being able to try to 24 carry out our part of it. We thank you very much.

Mr. Scott, your closing.

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MR. DUKES SCOTT [ORS]: 1 Yes, sir. 2 First, I want to address Commissioner Fleming's 3 That is a big issue that has been issue. discussed. It was discussed -- and I'm talking 4 5 about cost shifting issue. It was discussed in the EAC quite extensively, it was discussed in the EAC 6 7 report quite extensively, and it is taken care of 8 in this legislation. And the way it's taken care 9 of is, you all will make that ultimate decision. The law does require that the Office of 10 11 Regulatory Staff, in conjunction with the utilities and other interested parties, investigate and 12 report to this Public Service Commission the exact 13 14 issues that you were speaking of. And it's 15 58-27-1050, and I think Joseph might know how to look that up; if he doesn't, he can call me and 16 17 I'll tell him. 18 But it's quite -- it's quite -- I 19 mean, it's a long paragraph, but by December 2015, 20 we will have to have a report to you and the 21 ultimate protector of that interest is the Public Service Commission. And you'd be not surprised, 22 2.3 you'd be please, I think, to how many times it was 24 said that the Public Services Commission will take

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care of that.

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The Public Service -- I've heard Mr. Reeves tell, actually, the out-of-state people, our Public Service Commission will take care of that. You're well respected and a lot of the reason this legislation is proceeding is the confidence that's in you to fix it. Because the legislation can't impress every detail, but it does impress that very well and we look forward to your answer on that. With that, Mr. Chairman, we appreciate your time and attention. And I was right about I heard him speak several times. Mr. Reeves. heard him speak for the judiciary subcommittee, and when he did, I was sitting there and I said we need him to present for ORS to you. And I went up immediately after that and I said, Grant, will you be our presenter? And he said -- and he's worked very hard and you all have been attentive, we appreciate that too. Thank you very much. CHAIRMAN HAMILTON: We certainly feel that our questions were very well -- we're very

(The proceedings adjourned at 3:23 p.m.)

appreciate of that. And, Mr. Corbett, we

appreciate you being here to keep us straight.

Thank you, sir. With that, we stand adjourned.

67 CERTIFICATE OF REPORTER 1 2 3 I, Christina L. Essi, Registered 4 Professional Reporter and Notary Public for the State of South Carolina at Large, do hereby certify 5 6 that the foregoing is, to the best of my skill and 7 ability, a true and correct transcript of all the proceedings had and testimony adduced in an 8 9 Allowable Ex Parte Proceeding held before THE 10 PUBLIC SERVICE COMMISSION OF SOUTH CAROLINA in Columbia, South Carolina, according to my verbatim 11 12 record of same. 13 IN WITNESS WHEREOF, I have hereunto affixed my official seal this 16th day of April, 14 15 2014 at Columbia, Richland County, South Carolina. 16 17 18 19 20 21 22 Christina L. Essi, Registered Professional Reporter 23 My Commission expires 24 October 24, 2021

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